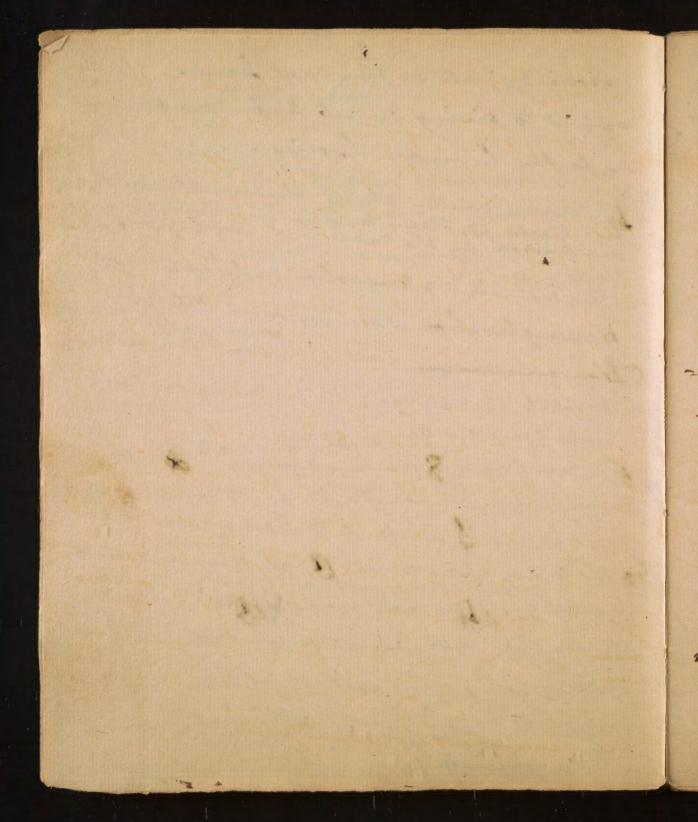
on the remote lances of disease from insensible bretters in the dir

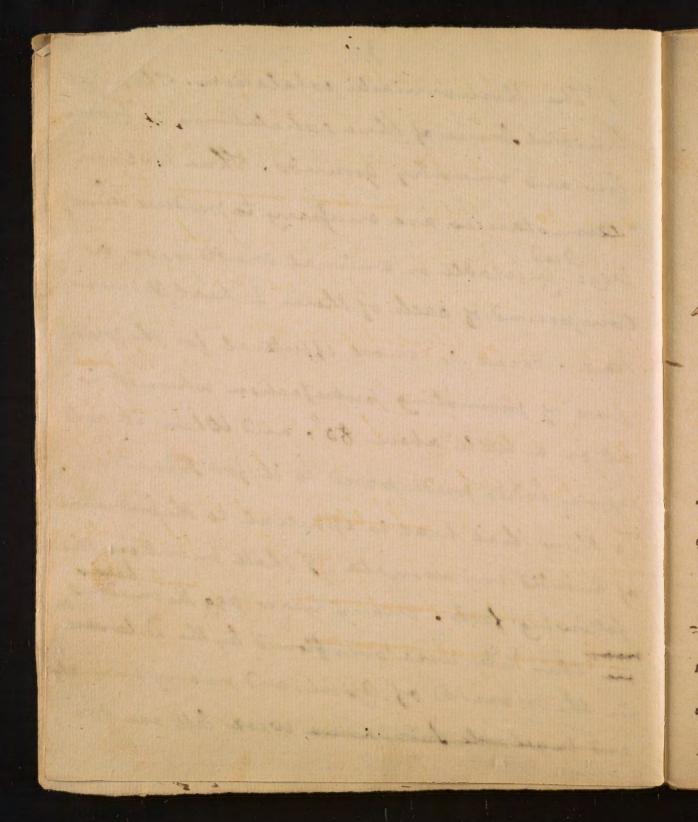
V They are Il Ischalations from the human body in a living state, rendered morbid by previous body in a living state, rendered morbid by Ihry disease, or by confinement to the body. They have been called by Draviller Diomiusmatic have been called by Draviller Diomiusmatic exhalations from their being deniced

we come non to mention the effects of the insensible qualities of the air upon hrallte and life, or air impregnated with artain foreign or extraneous matter which are obvious to vir ferses. These are I: what are commonly called march and house, or the exhalations. They former are derived from dead and putile fatter fatter and bugstable enatters - the former are derived from the burnan both in a his york has distinguished them the from by the names of Hornomiasmata - which he public, or exposed places. - and folio forms V3: The matter which produces the Influence. Certain Enalter, Which are generated by Secretion in the human body, and jueguages from one person to another through the endium of the tis. These are known by the trame of Contagions X 16 Hagnated air. 301

from private or presonal Somes. They extend to living dumb animals as well as to the human Speries. 5 Land discharge from the lungs in Registation These are known by the mannes of Courtagions These on the Small pox Ameasles, Influence, the Horping longher of perhaps some others. 6 Handenie airgur. artain malten discharged from Thurwal, Calcarious hebstances offermentingliques colle Carbine gas. " 7 & Masmuttan winds. & a matter Visitered from the earth by carthquakes acopor from Is rugs & huys huric aird in a gas cours form. The his of aftoveroom. B The effluence of certain 14 Certain of on from flowers & spices 17 matter with marker of found the matter with forms the inflummatory constitution of the Elmosphere, opon each of which I shallmake a few remarks in the order in which they have been mentioned.



1 The Kosisomiasti exhalations. The most fruitful Some of these cahalations is from low and mushy grounds. Three his cum. - Sternstances are mupary to produce them, leiz: bigetable or animal matters, or, a Compound of cach of them 2 heat, & mois. - true. It cut is most effectual for the pur: - prose of promoting putrefaction when it is at or a little above 80: and When it acts upon bodies predisposed to it for hometime. To thou that heat is epential to the production of morbid eni assmata, I shall emention the below following facts. Inany years ago the encedows in this city were overflowed by the Delaware in the mouth of april, and enany animals and begetable belistances were left on the



mudows exposed to the air after the rules of the viver. In vain was fichness looked for after it, for as yet there was heat eno to putiefy the dead americals the dead animals, nor to exhale them in the air, nor was there at that time any quantily of vegetable malter upon the Ground to publicy and min with the 2nd animalmatters. Some years afterwards a similar fresh oursed in the river and the ancadows were completely overflowed in the enouth of may or freme. From the fuble:
- mel of the heat of that of time, and from its being acted up the & grided by the event of the inventation in april before enentioned. I ventured to predict that no

V The trutte of this remark is so well check their fevers by completely overflowing The moist grounds from which theyo the This was come done his Ino Pringle surps at Brown, and with the hoppings effects.

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cotraoidinary Sickness would follow, and the ifsue was agreable to this Opinion. many facts thou that moisture is epential to the production of march wies mate. The Sun exhales nothing have holsome from the dry ground, for non from musshes When they are completely covered with wa. - to. 10 Brus remarks His his travels Shat rainy reasons which perfectly coursed the low grunds of an of the Countries he visited , the same things is noticed by De Dazilles in his amount of the disenses of the negroes at layenne. a rainy feason is gen sels um fiehly in the low Countries of the flate of Delaware,

----- 10 San 10 1 . -P. 15 6

but it is often to in the high and hilly parts of Punnsylvania where the rain is relained in quantities sufficient only to create moisture, but that liquidity, that is, not completely to cover the ground. This was remarkably the Case in the the years 1304, and 1806. It has Often been remarked that when The menty ground that are mistiged with a mixture of Jalt and fresh water are more apt to produce from of a Violent nature than ground mirthand only with fresh water. This has lately been noticed by Dr Hamiltons in his history of the bilions from which prevailed between the at Lynn Rigis in England.

V Dr Lind remarks that the Sichness is induced only by the first fallof the Rain, and prefspores thise first showers bring with their minimuta Which had been previously and exhaled and had blo ated in the air with the Vapor which constituted the vain perhaps they art the vain acts permit it to exhale confined noxious mutters. a great than Delquekara hypproses and had that effect in moduing a finer in the nightweethood of Phymouth in great Britain.

I have said that heavy & raino that com -pletety cover the ground, prevent exhala. - tion, but I have mentioned a Case in the of hung rain promoted exhalation, and because the course of a bilious fever. The rain to in this instance Dishoyed the quen covering which has covered a pond of stagnating water, and thus permitted the confined evisormate to escape into the atmosphere we read of fivers bring indued by heavy rains on the west coast of africa.

Perpulse they probably act is the same enauner,

They probably act is the same elow

likewise slow

I have said that brassly grounds when Completely Dry, produce fivers. To this there are some surring, exceptions . Six John

I this fact was so notorious that the inhabitants predicted a sichly or healthy feason from the different depoths of the water below the Surface of the carth.

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Paringle Describes a fiver which prevailed at Brabaret in the British army at a time when the Surface of the earth in that Country dis not for was uniformly dry, and no Source appeared from whener exhalations and he derived, but his John adds, that the below the harface of The was a bed of water which he happons was exhaled this the enth inprepated with putil matters, and that the fiver was produced by them. a Dr gordon who practised medicine at Berbire for several years inframed one that a fatal spidemice

yellowhere your ailed in that Country the

the between they 1804 de Enay 1805 in which 300 persons

with a fear on Jeason in which but three Enches of water fell in 10 months

to distinguish them from exhalations from the Such the fact the fact the fact the state of the sail which will be such a such a such that the sail with the sail of the sail o by Gener in which a bilious fiven was observed to mu ail where no obvious Source of exhalation existed. The fuer in this case followed a high wind which elevated a giventily of putrid matters from the bottom of a lake and afterwards diffused them through the atmosphere. I owe their offensive Down, but they Sumstimes exist in a deleterious from without being perceived by the Sense of Smelling. Transh miumata are must noxions in the envenings and evenings. They are last to in the enidale of the day, and the eniddle of the eright. In the former thry are churched above being inspired by the lungs - in the latter they are prinipitated to the custo by the coolings of the widnight air & The young and the robust are most

From the airments I have heard of the low I flat nature of that Browines, I think it highly probable that a bed of water below the Imface of the castle francished the exha-- latione which produced that fattel existence the many the court by great the may be the court by great the marghet by that they give of the production of fines that they give of the production of fines that they give is executive at to the production which pennish Them much exhalations that they should be in a State of putrefaction. To this they is There have been disputes about theeslout to which these exhalations may be carried, and still retain their power of induring disease. It is charly proved by Lemprice in his account of the diseases of lamarica, that they communicate fivers to a distance of rive miles where no Obstacles interpore to obstruct their papage. They travel in

liable to be affected by them them women's like work affected by them the around of formerly gave of the lovet scented thrub paping the over of the lovet scented thrub paping in 120 miles heady the aream, it is probable missing the aream, it is probable

or a greater distance, provided there were no brutter words, hills, or houses to obstant

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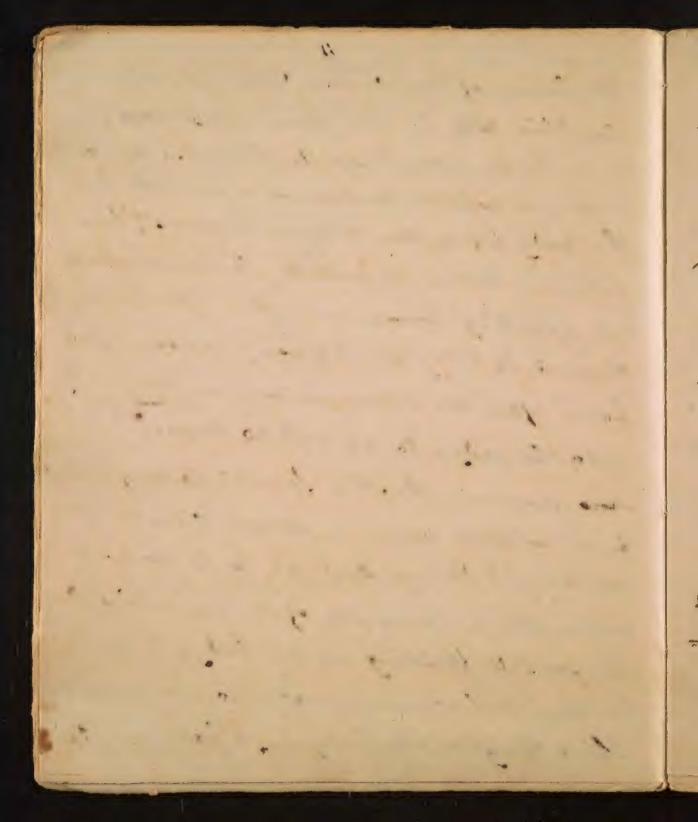
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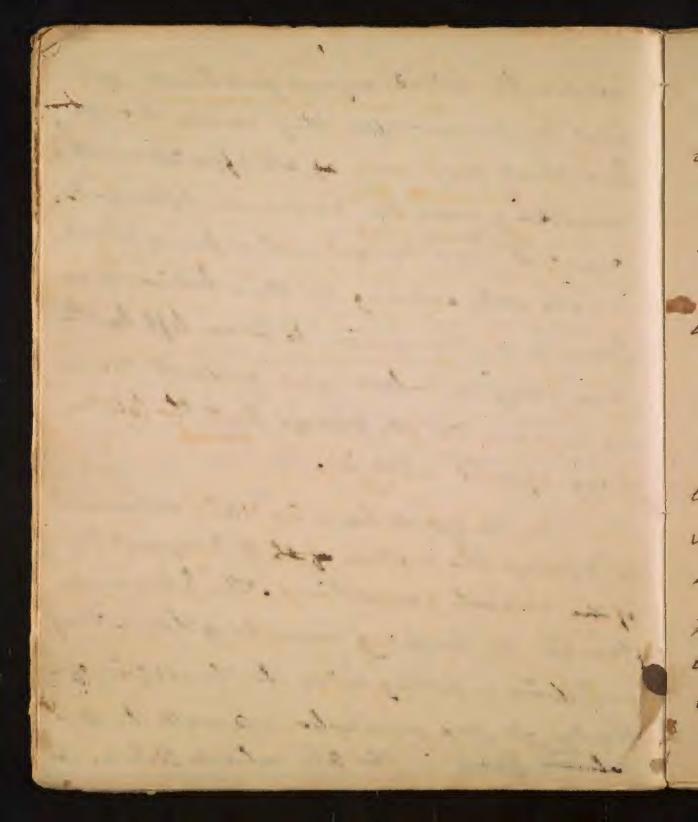
the Course of the winds. This was observed in this sity in the years 179301805. V There have disputes lihuvioe as to the time in which enimenate remain in The body before thoug induce Discase . They seldown act without the Concrement of are existing cause - and this has been Observed to being on Disease within a few hours after the eniasmata have been received and but surding to into the wody, to 20 and 30 days, I Tuckson top Dix months. The Sporadie Cases of yellow four which occur in all our lities in the Winter and Honing appear to be derived from the miasmath of the preceding the - turner slite floriting in the body; but if it be devied that evisionath do not exist This long in the body in a flate capable



of bringing an a fruir, they may become the Cause of it in another way that is they ency leave a predisposition to that flats of fever the Lys live after having papel out of it. The Toldiers of the Royal after their return from Egypt further British Regioneret, were affected with op Chabinia on this march to Sextland . The relator of the fact ascribes it to Contagion bushing in the Cloaths of the foldiers, but - position induced in the eyes by the venate causes of typ the abounts in Egypt. The Rw? empled a enember of Congrep from mapa. = cheefects informed one in the year 2799, that the Soldiers france esturned from Ficondunga where bitions fivers were common During the revolutionary hear, to the Village in

the state of V an intelligent Grazier near Darly informe me that I the new Comers from Inland who work city often emple the librous fives the first year ofter this arrival, but scarely ever coupse it outhe second. 13th 100

which he resided, enjoyed good health the first austrian after they came home, but that they were of all appeated with a - That I was derived either from mias. = mata still existing in this bodies, an from a predisposition to five left by this puntian Stimulus was evident from no person in the Village but the foldies being affected with it. V The Chinists have in Vain endravoured to discourse the control of the & Composition of the marsh exhalations. The Endiometer tinches in ristling respecting them. They are upon a footing with the Courtagion of the Small gray demandes, and with the wors walite float in the air which sicher, on



tests which chemistry her splies by themesty to dis cover them. The totion Miasmata act most certainly in the body in moist and Cool weather. This was long ago observed in the asiatic and african plague, and has been frequently Observed in the yellow from of this Country. It abit contributes very much muchto Upon the enorbid effects of those Eniasmeta upon the Applion. De Clark titls is that the same enissmath which produce bishons Junes, Colies, Coleras and Spasmodic Discases upan new Corners, produce only a puking of bile in a dickly has on in the ald inhabitants of matrap, and all writers

a comment was a will a got a g I The effects of habit are still more obvious in the ow inhabitants of Countries subject to these exhalations. They busine in time one of the Stimuli of life, and hence we observe on people who to sichen and die perhan they migrate from this influence to a healthier Coverebry Va more malignant type in adry than in a moist this. The firem in the latter state of the air and generally of a Remittents & Intermittents. _

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Marie and the second

title us that the minsmath which produce a yellow fiver in a now Corner in the hest Indies, produces only a virile remittent or a lip ainte tis case in the natives & The forms of discuse produced by encisemente are much varied by Chimate Steason. They are envet mulignant in hot Countries winfor in which best is not alternated with Cold. They are most open inflammatory in Countries the ofare: = verse Character. Fires are enve Disposed to a Continual, from in the former, · and to an interemitting foren in the latter Countries. They frosther if word in which they art upon the body.

and the second second V been supposed they induce disease in the Itomach by acting directly upon it of thate Just present the auting a different haming word 200 these flygoon by hing taken in the flograch in a andresate garantily, they promed protect the System from the fruer by their gentle and in offensive ftom Stimulus. I Swallowing a from Spoonsfirt of firm will mount introvication from the fuell of it, and enting berious but know menuts even wer Smelling thems - Carbonie gas to a condition of medicine in the Stornech . Why may ghot miasmath act in the same way I Than is done

I begrow the arterial hystern they produce the following from of fine leis I the yellow fruer, and the plague. 2 The hop lumenatory bilions freen, & the 2" grade of the 3 The enile Remittent of the 30 grade of the plague.
1, The Intermitting free men distinctly late writers. 5 The Chronic Jeven & the o Trebricula. 2 wood the flowwark they induce Sichness -Couriting, and inflammations when they appets the Hornach in this manner, The discuser has been called by the Townets physicians a gastritic fever". It has 3 In the bowels they produce, Dysentery Evlera morbus - Colis and Diambaa. Thise have been called the Intestinal flate of 4 he the Liver they produce inflammation,

V This is so common, that we are told the ord Romans seldows bought, or cultivated a farmitill they had examined whether the Etnation of it were healthy, by first in: - youling the truers of the Downstie animals in its nighbourhood. 3-1-6-1 ---

Inspuration, Obstruction - Defect of Secretion & exerction and preternatural secretion and exerction of bile. They between change the Colon, and witrate the qualities of the bile, so as to dispose it to give pain in paping out of the body by its acrimony. These worked effects of miasmath upon The liver are not confined to the human Speries. The livers of dornestie arimals That bud upon marshy grounds, or live in their neighbourhood are appeated musty in the same way, particularly with in-- Hamenation and Elles. V 5 In the Spleen they produce great Congestion - enlargement - and Sametimes be complete Disorganization. This has been moved by many differentions by Cleghover, Pringle des Iachson.

Jon the Throat Mond mounth they

formationes produce fores between gone

webster ascribes the agranded maligna

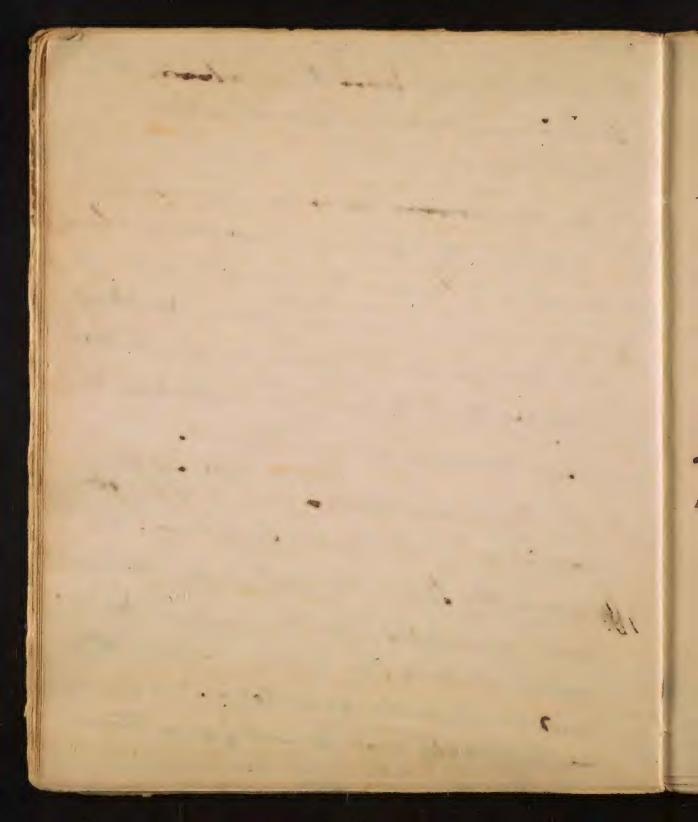
to the influence of the vinormias muta

upon the hystern determined to those parts

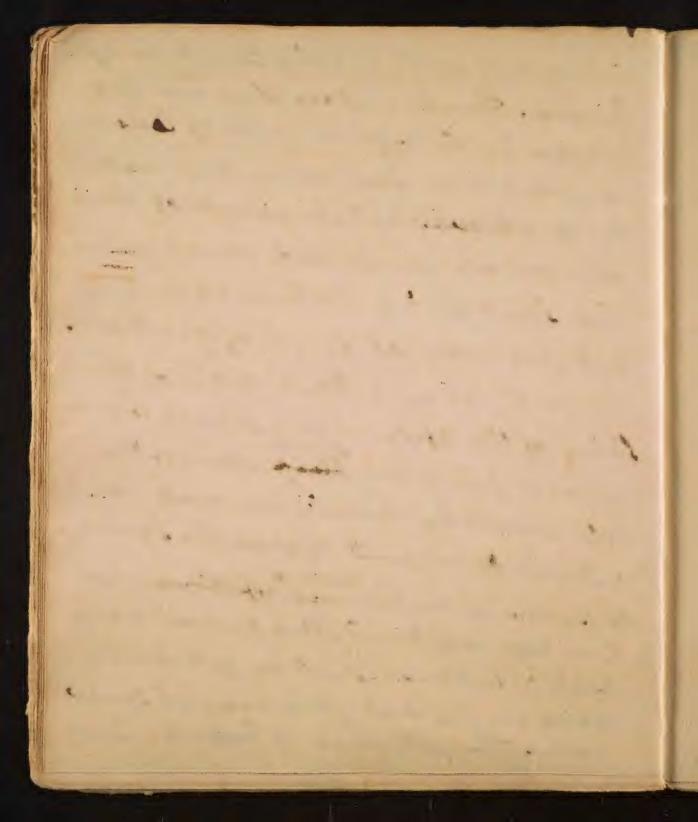
by so the ascremstances of the sensible

greatities of the air or of the Constitution.

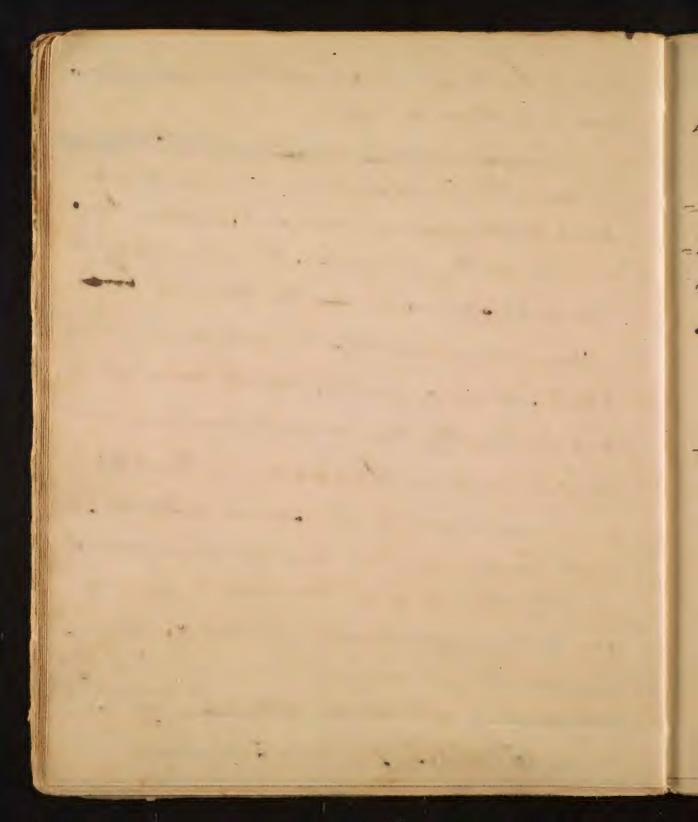
6 In the kidneys How hungs where they Sometimes produce inflammation, and Obstructions. I for the more muscles - nerves - brain and brind, they produce Conventsions-hys= - trical and hypocondriacal Symptoms -frain - inflammation - palsy - apoplesy & madness in the order in which those parts of the body and the respective dis-= enous have been mentioned. 8 for the Lymphatic they produce gto dropsies and glandular Iwellings. V 10 upon the Skin they produce michly heat, epere - empipelas - boils - carbiencles - bes petichial Spots. In many instances they produce Chronic emptions. The Lynny in formerly was derived from their



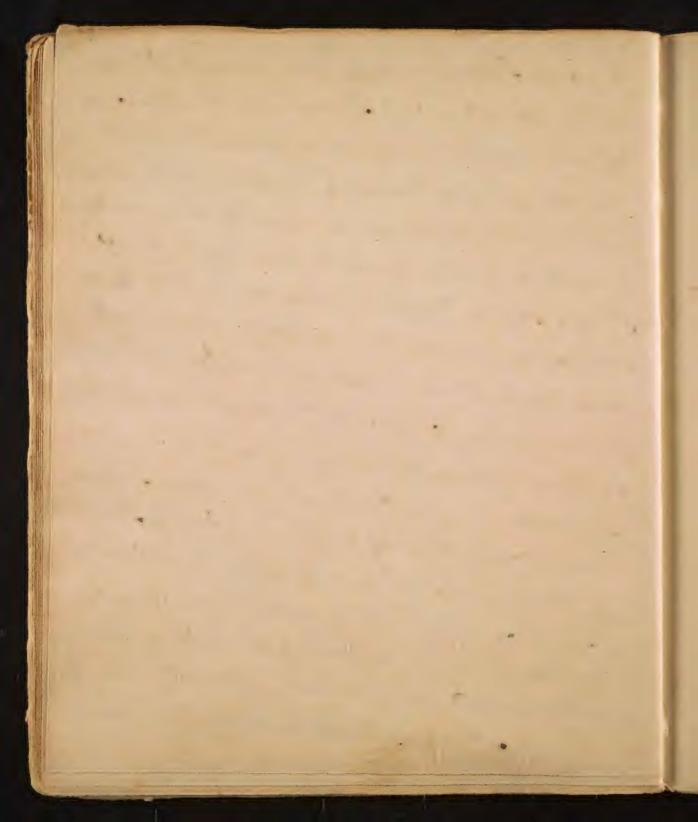
in several of the marshy countries of Europse. Travellers tellass there are two Willages in the neighbourhood of anstanz - timpple which have never been visited by the plague. The inhabitants of those villages are covered with exeptions upon this Shir which are probably wothing but an external four of the plague. The Dark and even black color of the This of the africans is supposed to arise in part from the black colors of the bile induced by kvino miasmath, and afternaids diffused through the System. Lo. Besides all the voodied Affections which have been mentioned; they produce many local affections - Inch as opthalmic pains in the head, jours - eurs - hips & back. The optichnia of Egypt is widently



indued by the same exhalations which pro-- chree the plague: -I mark the things I have hitherto spoken only of those exhalations which are derived from love and marshy grounds. They are the most general Sources of dis the discuses have emmereted. But there are many Other Sources of pretrid exhelations which popels exactly the same properties, and which produce though in a limited manner exactly the same effects of That barely wention them! I refer you to The 4th bolime of my midical Inquisies for a enve particular history of them. They are the following enalters in a flate of putefuction 2 Cabbage. 3 Polatoes, Thetian meal . & orrious, of mint, & Curraway and



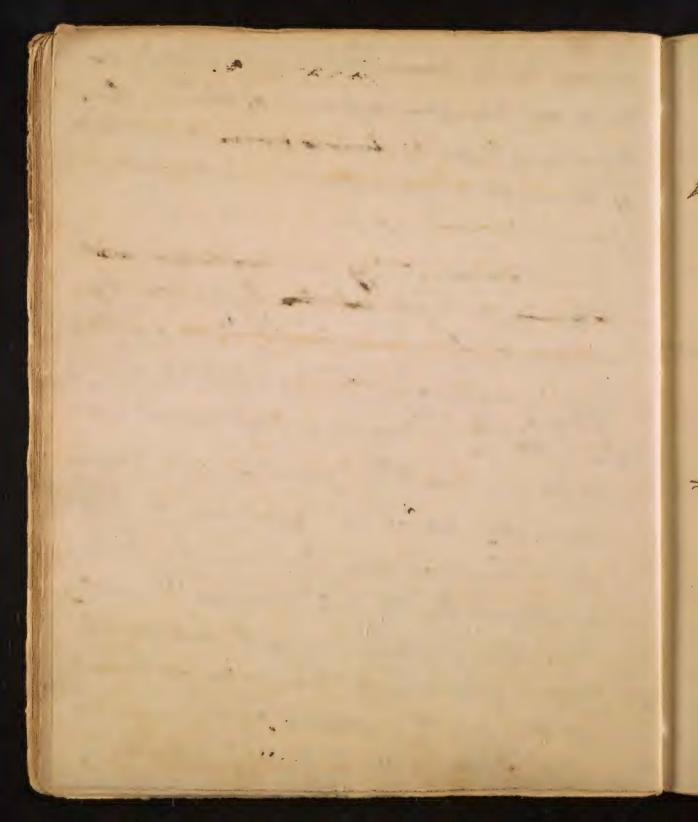
arrisced Seeds. 9 Coffee. 10 Chocolate Shells. 12 Thurs, play and Straw . 13 the Canvals of an old tent. 14 old books. 15 the time - her of an old house. 16 green wood confi-- ered in a close aller during the during moultes. 14 the green timbers of a new Ship. 18 the Plagmenting air of the hold of a Thip. 19 Bilge Water 20 Water that had buen Confined in hogsheads at fea. 21. Stag= - ruting rains water. 22 the Stagnating air of close allers. 23 The walters which usually Hagnate in the Gullers, Common Irwers, dochs, and alleys of cities, and in the Links of hitchers. 24 dis enrilted by agitating Sourt cond flagmenting water 25 a Duck pour . 26 a Hogstye. 27 weeds wet down and exposed to heart and misture mura house. The bollowing simply animal



Substances have been been known to Junish komorniasmetis exhelations when in affate of putrefaction. I Theman bidies left unburid after a buttle. 2 Louists. 3 raw hides. 4 perhid but 5 putid fish, porti enterly a large whale . 5 pretrid Jeannot diserrifo this interesting Subject without calling upon you to pause and reflect upon the facts that have been detailed in discuping it. They are important at all times, and in all Countries, but at one time, & in no bung - by at present more to, than in the United flates in which fiver from thoiseonis -as we the exha lations are yearly spreading Diskels and death and throughout every part of over Country. They are the

+ su exception from De Duridion in 4th Wolene of Inquiries. The same The beginning of rainy fewsons is monoger most bickly in Greinen aunding to D'Lind - Puhaps from the Rain being sins my noted with miasoniate grance mentioned by D'Lind. 1

more to be Down Stadied, and Ireaded, as the most Dangerous form of them has been unhappily divisit from deried tobe of downestie origin, but imported from Jonign Courstries, -To have to they are two bothy is they see distroyed - thether by nature, by menns of heavy rains, by black frosts, that is cold to intouse as to produce ier, high winds degree of heat to intense to to dry up this Jonnes. The plague generally ceases in Egypt on the 17. of have breuse on that day the land overflowed by the brile becomes completely Dry. For an around of the artificial modes of destraying these minsmatte, on of soviating their broshid Effects upon the body. I refer your to the 4th Volume of



eny Ingrisies. _ go to p: 72 2 2. + II ha come now in order to beats the infreguetion of the air ingregnated with brings mate, or Iniusmete Deviced frame landid living bodies. The broshid malters which produce discusses in their thing for an prospiration are veria = 2000 from the following Canses. . I The want of Chambinelp. This is or fruit. - ful Source of fet Disease. Linear gasments have been supposed to accumulate and retuins the enoutid matter which is discharged from the pores, more than tovolen on Cotton, although the latter are supposed to utain it langest. The frees of which prevailed in the american Army in the deriva in part from year 1775 were aresided at infly to

V the army of the United flates from their being so much words were the hot beds of a fiver which destroyed more than the saved during the was which gave independance to our tourtry. Iven the tents when eine Ded with mers hometimes generated this fuer - hence it was remarked - our boldiers were most healthy where their murches, on Other Duties conspelled them to Llup in the open his:

Ite rible Shirt 24 jourt of the Uniforme of The Southern troops During that year of the rishetionary war of the thickers 2 Confirment in a Crowd . Soils, hos - milats, this and even Schools Often Survey the Sources of from from the Comprisement and Concentration of the discharges from the pores of venilitary of V 3 Low, vagid begetable abravent; 4 Dutid animal food. 5 a Jeanty quantity of wholsomer alienent. 6 Chronic bifions fevers & Dysupion of mind and y a sudden misture with strangers

the same thing happens to lattle when had been here been drived together. The status which have been drived have been the discare in those which have been in a quiescent flatio. The perspiration is changed in the former of them indens the discase. I the discase when formed in any of the above ways is propagated by what I shall above ways is propagated by what I shall presently call the Contagion of exerction.

with cach other. This singular forme of the origin of fevers was prist pointed out by D" Blane. He tells that a four of the typhus kind generally followed the michine of the trews of different Ships, and were the admission of a recenits into the or Ship. I have so most of the States in the Union as another Cause of the fever which Invailed with so much mortulity in the american army in the years From the incommention of all these Causes of freer from human mins math it is easy to ausunt for its quester Juguency in the time of war, than

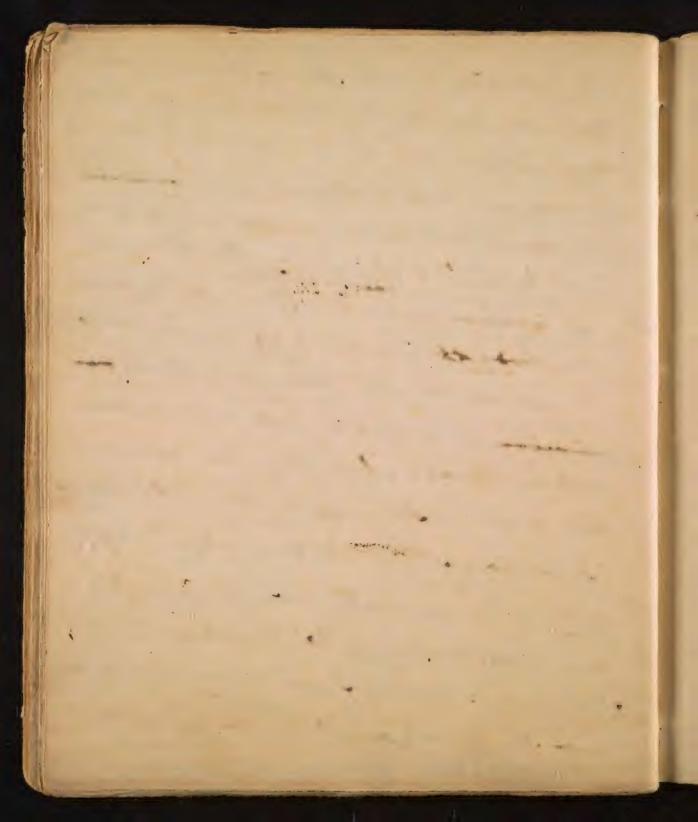
a note

At has been remarked that Poldiers are enough lichely when they fleeps in tents than in the open his during a Carre- paign. Hence it has been said asse inactive army is generally a sickly inactive army is generally a sickly

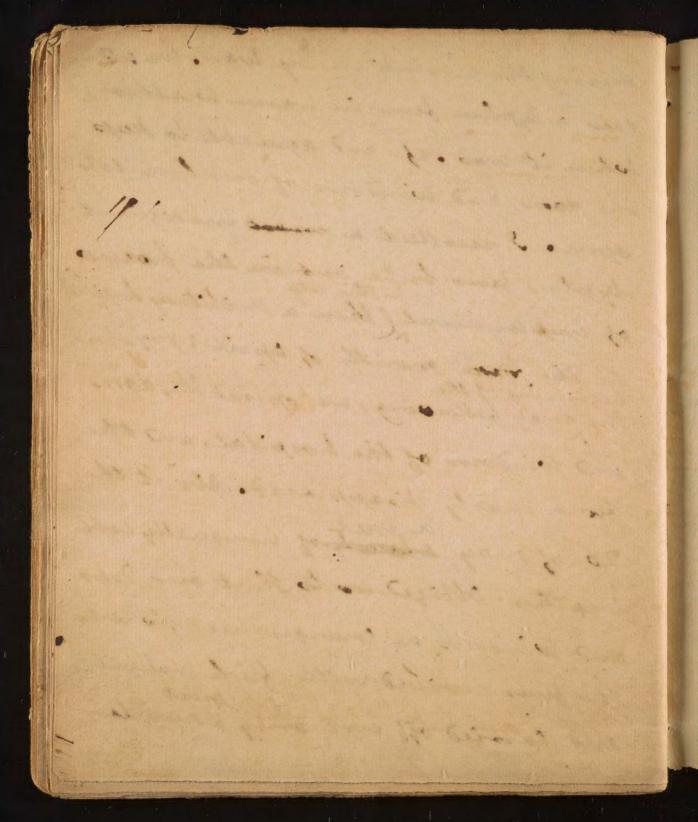
in peace, for war exposes to the want of Cleanlines, to Confinement in hospitals, jails, prison thips, on beauty town to stand were in tents, to bols owne or scarty alient, to show hilliams Kojins with matificant to quat to the languages, and to quat dysrep con of mind, Transine of pestilence butters have often follows generally bounded with of wan, and here we find hahesprang like describes them both as cross ching like a pair of hounds at the feet of Cosas while he was girding on his Swad. The Connection between those two while war begets a francity of provision - uns by Drawing men from agriculture the Other Courses that have bunners timed.

V induce chower when discharged from a healthy person, and afterwards enforced to Stagnate Until it undergoes a morbid change, I infer from the hinner of persons in good health particularly of labourers producing fivers in washer les: = men. For this reason body himen when loid aside should for the washing tub should for the windy o should never be to thrust into swhat is called a Chathe bag or basket before it has been exposed for some time to the air. Brine in a fate of putilation is life liable to produce Discon die John Pringle tills as them any any other exercition from the body.

The following air comolatines deserve our attention in the history of humanini. -aserata. I They are derived chiefly from with to perspirable enactes vitrated in part in The body, but chiefly by the Changes undergoes by Hay I Engenting or upon it was upon the fhir, or upon the body to Clouthing of Junous who generate it. The Other exerctions per-- limber in a putrid state will certainly produce disease, but they are a much. less prequent Source of it than the pen - spiration. That the proprination may 2 They are generated more frequently & are enose active in Winter than in dunimer. Of this I; an many instances in an the american army & hospitals



thiring the revolutionary war. we sellow I am a typhus bener in warm weather, when it was daft and agreeable to keeps the doors and windows of our hospitals open. I restlet a met metignant by plus fiver broke out in the horise in this city of employment (then a military hospital) in the year month of april 2779. In beginning of the the enery bollowing, we opened the doors and windows of the hospital, and the fiver enasty disappeared. About the 20 : of may atout of unusually cool weather Obliged us to that over does and windows, in consigners of which, the fever revived with fresh Indisority, and carried off not only a smarter



of latiniers, but two services hugeons and in a lighter digree wery other of fiver of the hospital. Dr Blane in his epays upon the means of mwenting the Discuses of Scarren unintimes a fact which aunts with the one I have related. He says the Thip fiver always disappeared in Voyages from England to the West Indies, the means they approached the plands; but that it always encreased the numer they approx - ched the Cold and moist thous of great inschining from the societies it very justly by Britain & the our pasts it very justly by in the former case to the dispositions which failors and loldiers to be uponduk in warm latitudes which prevents the generative of enorbid miasmata,

